

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name CTE Series 900
Thread Lock Part A (Resin)

Product Code 900A
Chemical Name Not Applicable - Mixture
CAS # Mixture

Manufacturer Cementing Technology & Equipment Ltd
6704 59 street
Edmonton, Alberta, Canada T6B 3N6

In Case of Emergency 780 485 8799
Uses Resin for epoxy adhesive

Section 2. Composition and Information on Hazardous Ingredients

<u>Name</u>	<u>CAS #</u>	<u>% by Weight</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Epoxy resin	25068-38-6	40-60%	None established	None established
Inert fillers	N/A	40-60%	N/A	N/A

* No toxic chemicals subject to the reporting requirements of Section 313 of Title III and of 40.CFR 372 are present.

SPECIAL NOTE: MSDS data pertains to the product as dispensed from the container. Adverse health effects would not be expected under normal conditions of use, so long as recommended safety precautions are practiced.

Section 3. Hazards Identification

Eye Contact May cause mild irritation, tearing, and redness.

Skin Contact May cause irritation, dermatitis, and sensitization.

Skin Absorption Not toxic by skin absorption. High pressure injection through the skin requires immediate medical attention.

Inhalation Not a relevant route of entry due to its paste form and low vapor pressure.

Ingestion May cause gastrointestinal irritation if large quantities are ingested.

Sensitization May cause skin sensitization.

Chronic Effects May cause skin sensitization.

Carcinogenic Effects No ingredients listed as carcinogenic by IARC, NTP, or OSHA.

Mutagenic Effects No data.

Teratogenic Effects No data.

Reproductive Effects No data.

Section 4. First Aid Measures

Flush eyes with clean water for at least 15 minutes. Call a physician.

Remove any contaminated clothing and wash skin with soap and water. If irritation occurs, call a physician.

Accidental high pressure injection through the skin requires immediate medical attention.

Remove victim to fresh air and keep him calm. Get medical attention if necessary.

Do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention if necessary.

Section 5. Fire and Explosion Hazards

Flash Point (method) >199°F (93°C) (PMCC)

Auto-Ignition Temp. Not available

Flammable Limits in Air
Combustion Products

l: No data u: No data
Carbon monoxide, carbon dioxide, hydrogen chloride, hydrocarbons. In the presence of mechanical impact or static discharge: no explosion risk. Use foam, CO₂, dry chemical, water fog. Water can be used to keep containers cool and to flush spills away from fire exposure. Firefighters must wear self-contained breathing apparatus and protective clothing in confined areas.

Explosion Hazards

Special Fire Fighting Measures

Section 6. Accidental Release Measures

Small Spill Recover free product. Add sand, earth, or some other suitable adsorbent. Dispose of material in accordance with all state and local regulations.

Large Spill Take care to keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered sewers, watercourses, or extensive land areas.

Section 7. Handling and Storage

Storage Store in cool dry area in original or equivalent container in accordance with all applicable regulations. Do not expose to extreme heat or flame. Store below 90°F.

Handling Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Do not get in eyes. Follow good hygiene and housekeeping practices. Use in ventilated areas.

Section 8. Exposure Controls and Personal Protection

<u>Engineering Controls</u>	Use with adequate ventilation or local exhaust.	<u>Personal Protection</u>	Safety glasses. Splash proof eye protection where splash risk exists. Impervious gloves (such as butyl rubber) for prolonged or repeated skin contact.
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Section 9. Physical and Chemical Properties

<u>Appearance and Odor</u>	Gray paste, mild odor	<u>Vapor Pressure</u>	0.03 mbar at 171°F (77°C)
<u>pH</u>	Not applicable	<u>Vapor Density (Air=1)</u>	No data
<u>Boiling Point</u>	> 500°F (> 260°C)	<u>Odor Threshold</u>	No data
<u>Melting Point</u>	No data	<u>Evaporation Rate</u>	No data
<u>Specific Gravity (H₂O=1)</u>	1.4	<u>Solubility in Water</u>	Negligible
<u>Water/Oil Distribution Coefficient</u>	No data		

Section 10. Stability and Reactivity Data

<u>Stability</u>	Stable.	<u>Incompatibilities</u>	Oxidizing and reducing materials, acids, bases.
<u>Conditions to Avoid</u>	Extreme heat.		
<u>Hazardous Polymerization</u>	Will not occur.	<u>Hazardous Decomposition Products</u>	Carbon monoxide, carbon dioxide, hydrogen chloride, hydrocarbons.

Section 11. Toxicological Information

<u>Routes of Entry</u>	Eye, skin.
<u>Toxicological Data</u>	No data

Section 12. Ecological Information

<u>Eco toxicity</u>	No data
<u>BOD5 and COD</u>	No data
<u>Biodegradation Products and Toxicity</u>	No data

Section 13. Disposal Considerations

<u>Waste Information</u>	Dispose of waste according to federal, state, and local regulations.
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Section 14. Transport Information

<u>DOT</u>	Not regulated.
<u>IMO</u>	Not regulated.
<u>IATA</u>	Not regulated.

Section 15. Other Regulatory Information**Hazardous Material Information System (HMIS) (USA)**

Health	1*
Fire	1
Reactivity	0
Personal Protection	B

SARA Section 313: No ingredients subject to reporting requirements.

TSCA Inventory: All ingredients are listed or exempt.

California Prop. 65: No ingredients listed.

Canada DSL: All ingredients listed.

WHMIS Classification: D2B (sensitizer).

WHMIS: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. (Canada)

Section 16. Other Information

<u>Date Revised</u>	01/02/2008	<u>Prepared by</u>	Sharon Stratman
<u>For More Information Call</u>	780 485 8799		

Important Notice Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of this product for particular uses are beyond our control. Users should make their own investigation to determine the suitability of the information or products for their respective purposes.

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name CTE series 900
Thread Lock Part B (Hardener)
Product Code 900B
Chemical Name Not Applicable - Mixture
CAS # Mixture

Manufacturer Cementing Technology & Equipment Ltd
6704 59 street
Edmonton, Alberta, Canada T6B 3N6

In Case of Emergency 1 780 485 8799
Uses Hardener for epoxy adhesive

Section 2. Composition and Information on Hazardous Ingredients

<u>Name</u>	<u>CAS #</u>	<u>% by Weight</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Triethylenetetramine	112-24-3	< 10%	None established	None established

* No toxic chemicals subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372 are present.

SPECIAL NOTE: MSDS data pertains to the product as dispensed from the container. Adverse health effects would not be expected under normal conditions of use, so long as recommended safety precautions are practiced.

Section 3. Hazards Identification

Eye Contact May cause irritation, redness, tearing.

Skin Contact May cause drying of skin, irritation, and dermatitis.

Skin Absorption Not an expected route of entry

Inhalation Not an expected route of entry

Ingestion Not an expected route of entry. May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Sensitization May cause skin sensitization, may cause allergic reaction.

Chronic Effects Skin sensitization, allergic reaction.

Carcinogenic Effects No ingredients listed as carcinogenic by IARC, NTP, or OSHA.

Mutagenic Effects No data.

Teratogenic Effects No data.

Reproductive Effects No data.

Section 4. First Aid Measures

Flush eyes with clean water for at least 15 minutes with eyelids held open. Get medical attention if irritation persists.

Remove any contaminated clothing and wash skin with soap and water. If irritation occurs, get medical attention.

Remove any contaminated clothing and wash skin with soap and water. Monitor for shock. Get medical attention if necessary.

Remove victim to fresh air and keep him calm. If not breathing, give artificial respiration. Get medical attention.

Get medical attention. If conscious, give large quantities of water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Section 5. Fire and Explosion Hazards

Flash Point (method) > 240°F (115°C) (COC)

Auto-ignition Temp. Not available

Flammable Limits in Air lcl: No data uel: No data

Combustion Products Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia gas.

Explosion Hazards In the presence of mechanical impact or static discharge: no explosion risk.

Special Fire Fighting Measures Use foam, CO₂, dry chemical. Water can be used to keep containers cool and to flush spills away from fire exposure. Firefighters must wear self-contained breathing apparatus and full protective gear.

Section 6. Accidental Release Measures

<u>Small Spill</u> Remove sources of ignition. Recover free product. Add sand, earth, or some other suitable adsorbent. Dispose of material in accordance with all state and local regulations.	<u>Large Spill</u> Take care to keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered sewers, watercourses, or extensive land areas.
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Section 7. Handling and Storage

<u>Storage</u> Store in cool dry area in original or equivalent container away from sources of ignition in accordance with all applicable regulations. Do not expose to extreme heat or flame. Store below 90°F.	<u>Handling</u> Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Do not get in eyes. Follow good hygiene and housekeeping practices. Use in ventilated areas.
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Section 8. Exposure Controls and Personal Protection

<u>Engineering Controls</u>	Use with adequate ventilation or local exhaust. If ventilation is inadequate, use NIOSH-approved respirator.	<u>Personal Protection</u>	Safety glasses. Splash proof eye protection if splash risk exists. Impervious gloves such as neoprene, nitrile or butyl.
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Section 9. Physical and Chemical Properties

<u>Appearance and Odor</u>	Black paste, amine odor	<u>Vapor Pressure</u>	No data
<u>pH</u>	Not applicable	<u>Vapor Density (Air=1)</u>	No data
<u>Boiling Point</u>	No data	<u>Odor Threshold</u>	No data
<u>Melting Point</u>	No data	<u>Evaporation Rate</u>	No data
<u>Specific Gravity (H₂O=1)</u>	1.4	<u>Solubility in Water</u>	Negligible
<u>Water/Oil Distribution Coefficient</u>	No data		

Section 10. Stability and Reactivity Data

<u>Stability</u>	Stable.	<u>Incompatibilities</u>	Oxidizing and reducing materials, acids, bases, sodium nitrite.
<u>Conditions to Avoid</u>	Extreme heat.	<u>Hazardous Decomposition Products</u>	Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia gas.
<u>Hazardous Polymerization</u>	Will not occur.		

Section 11. Toxicological Information

<u>Routes of Entry</u>	Eye, skin.
<u>Toxicological Data</u>	No data

Section 12. Ecological Information

<u>Eco toxicity</u>	No data
<u>BOD5 and COD</u>	No data
<u>Biodegradation Products and Toxicity</u>	No data

Section 13. Disposal Considerations

<u>Waste Information</u>	Dispose of waste according to federal, state, and local regulations.
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Section 14. Transport Information

<u>DOT</u>	Not regulated.
<u>IATA</u>	Not regulated.
<u>IMO</u>	Not regulated.

Section 15. Other Regulatory Information**Hazardous Material Information System (HMIS) (USA)**

Health	1*
Fire	1
Reactivity	0
Personal Protection	B

SARA Section 313: No Ingredients subject to reporting requirements.

TSCA Inventory: All Ingredients are listed or exempt.

California Prop. 65: No ingredients listed.

Canada DSL: All ingredients listed.

WHMIS Classification: D2B (sensitizer).

WHMIS: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. (Canada)

Section 16. Other Information

<u>Date Revised</u>	01/03/08	<u>Prepared by</u>	Sharon Stratman
<u>For More Information Call</u>	780 485 8799		

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